Report of UNICEF-WHO Consultation: Development of a Programming Guide for Scaling Up Treatment, Care and Support for HIV-Infected and Exposed Children in Resource-Constrained Settings New York City, USA:

January 11-13, 2006

Management Sciences for Health is a nonprofit organization strengthening health programs worldwide.



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Rational Pharmaceutical Management Plus Report of UNICEF-WHO Consultation: Development of a Programming Guide for Scaling Up Treatment, Care and Support for HIV-Infected and Exposed Children in Resource-Constrained Settings New York City, USA: January 11-13, 2006

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January 24, 2006

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About RPM Plus

The Rational Pharmaceutical Management Plus (RPM Plus) Program, funded by the U.S. Agency for International Development (cooperative agreement HRN-A-00-00-00016-00), works in more than 20 developing countries to provide technical assistance to strengthen drug and health commodity management systems. The program offers technical guidance and assists in strategy development and program implementation both in improving the availability of health commodities—pharmaceuticals, vaccines, supplies, and basic medical equipment—of assured quality for maternal and child health, HIV/AIDS, infectious diseases, and family planning and in promoting the appropriate use of health commodities in the public and private sectors.

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Report of UNICEF-WHO Consultation: Development of a Programming Guide for Scaling Up Treatment, Care and Support for HIV-Infected and Exposed Children, New York City: January 11-13, 2006.

Acronyms

AIDS acquired immunodeficiency syndrome

ART antiretroviral therapy

EPI Expanded Program on Immunization

FDA Food and Drug Administration [United States]

HIV human immunodeficiency virus

IMCI Integrated Management of Childhood Illness

MSH Management Sciences for Health

PCR polymerase chain reaction

PMTCT prevention of mother to child transmission [of HIV]
RPM Rational Pharmaceutical Management Plus [Program]

UNICEF United Nations Children's Fund

USAID United States Agency for International Development

WHO World Health Organization

Report of UNICEF-WHO Consultation: Development of a Programming Guide for Scaling Up Treatment, Care and Support for HIV-Infected and Exposed Children, New York City: January 11-13, 2006.

Background

While many countries in resource-limited settings have made considerable progress in scaling up access to HIV care and treatment for adults, the provision of services, especially antiretroviral therapy (ART) for children, is still in the early stages. The United Nations Children's Fund (UNICEF) and the World Health Organization (WHO) have agreed to develop appropriate programming guidance to assist countries in the scale up of pediatric HIV care and support.

The consultation was convened jointly by UNICEF and WHO with the following goal and objectives.

Goal-

• The aim of this meeting is to review the draft UNICEF / WHO programming guidance and identify essential revisions and modifications and outline next steps.

Specific Objectives—

- 1. Review and agree on the essential package of services for treatment, care and support of HIV-exposed and HIV-infected infants and children. This will include, but not be limited to:
 - a. Routine HIV testing
 - b. Follow up of children exposed to HIV and ensuring early testing (polymerase chain reaction [PCR] for infants and for older children, rapid antibody) through child and family care programs
 - c. Delivery of long-term care of symptomatic children in health care settings, including provision of cotrimoxazole prophylaxis and ART
 - d. Training to improve skill levels of health care providers and laboratory staff
 - e. Delivery of home-based care to both exposed and infected children
 - f. Provision of psychosocial support and counseling for HIV-infected children
 - g. Quality improvement activities
- 2. Review the draft programming guidance to confirm its applicability, suitability, and relevance to the key intended audience.
- 3. To examine and endorse the identified key program elements of the draft programming guidance.

The terms of reference for the meeting are attached as Annex 1.

Scope of Work

Ms. Helena Walkowiak, Senior Program Associate, Management Sciences for Health (MSH) / Rational Pharmaceutical Management Plus (RPM Plus) Program attended the meeting at the UNICEF headquarters in New York City from January 11 to 13, 2006 to:

1. Give a presentation on experiences in improving supply management for pediatric HIV care and treatment in resource-constrained settings.



Activities

1. Give a presentation on experiences in improving supply management for pediatric HIV care and treatment in resource-constrained settings.

The agenda of the meeting is attached as Annex 2.

Ms. Walkowiak's presentation entitled *Experiences in Improving Supply Management for Pediatric HIV Care and Treatment in Resource-Constrained Settings* was very well received and is attached as Annex 3.

2. Participate in discussions and group work with other technical experts to review the draft programming guidance and develop a summary of recommendations to be reflected in the guidance, with a particular focus on supply management.

The following methodology was outlined by UNICEF and WHO for developing the draft recommendations—

- The draft programming guidance will be developed in a consultative manner involving relevant UNICEF and WHO technical and operational departments with the assistance of a consultant.
- The draft guidance will be shared with participants in advance of the consultation.
- Participants at the consultation will have the following profiles:
 - o Experts in pediatric HIV care and support
 - o Individuals from a select number of countries where demonstrable progress in delivery of HIV care and support has been made
 - National program managers or officers who would be the primary target audience
 of the programming guidance from countries where significant burden of pediatric
 HIV disease (either high prevalence or high total number of HIV infected women
 and children)
 - National or international partners with experience of effective approaches to providing pediatric HIV care and support
 - o Individuals with program planning and implementation experience in related areas of child health, Expanded Program on Immunization (EPI), Integrated Management of Childhood Illness (IMCI) and prevention of mother to child transmission (PMTCT)
 - o Individuals with health systems expertise; in particularly related to organization of health service delivery and human resource planning
- Participants at the meeting will review the priority intervention areas identified in the draft guidance document, identify through presentations and plenary discussion effective mechanisms for service delivery and key program requirements, and through group work provide recommendations to be incorporated in the finalized tools.

The list of participants is included as Annex 4.

Ms. Walkowiak was requested to act as co-chair for Group 3: Supplies (Forecasting and Management). The group used the Pharmaceutical Management Cycle to develop recommendations for the guide.

Observations of interest from a Pharmaceutical Management Perspective.

- Some participants felt that the Guidance should also address prevention in addition to treatment, care and support. It was frequently mentioned that in addition to rolling out ART for treatment that it is absolutely necessary not to lose focus on the need to strengthen PMTCT programs to prevent children becoming HIV-infected. There was a lot of discussion on building linkages between PMTCT and treatment / care.
- There was a great deal of discussion about where pediatric ART "fits" in health delivery whether it should go with child health services or with the ART clinic. Generally, the feeling was that it would probably be both depending on the context, but the two challenges to both approaches are a) training staff in pediatric ART / HIV care and support and b) building systems to provide chronic care for children which do not generally exist in resources-constrained settings. Integrating HIV into IMCI was discussed in several presentations.
- There were several presentations and much discussion on the issue of diagnostics for children, including using PCR for diagnosis several laboratories are investigating the utility of using a single PCR for diagnosis. Of particular interest to the pharmaceutical management staff is that none of the existing technologies are licensed by the United States Food and Drug Administration (FDA) to use PCR for diagnosis this will be a major constraint to get approval to procure PCR technologies and even reagents for a non-FDA approved indication using funding under the U.S. President's Emergency Plan for AIDS Relief. Roche has not applied for FDA approval for this indication because they would like to build and obtain approval for one platform that will address the needs of adults and children so that countries do not have to buy both.
- Another laboratory issue related to monitoring for pediatrics is that the laboratory participants recommended that ideally one platform should be purchased to meet the needs of both adults and children. E.g. CD4 machines should be able to do CD4 / CD8 percentages in addition to CD4 / CD8 absolute values; other automated equipment should be able to handle small sample volumes in addition to larger samples for adults. There was also a lot of discussion on using dried blood spots so that samples can be sent to wherever the equipment is located, (including in some cases other countries).
- Although there was only one presentation that focused on supply management (given by Ms. Walkowiak) supply management was mentioned in many of the presentations, especially in the country experiences, as a major constraint to implementation.
- A major focus of the supply management discussion for participants appeared to be on producing reliable forecasts for the pharmaceutical industry for pediatric ART and also for cotrimoxazole. This appears to be an area of focus for UNICEF and WHO and participants were particularly interested in what tools and methodologies exist to improve forecasting at the country level and how to make them more available to countries.

There was also much discussion of the need for accurate consumption data for pediatric ART and information on scale up to inform forecasting. Again participants were interested in available software and technologies to capture, analyze and report data on pediatric ARVs and medicines to prevent and treat opportunistic infections at the site level.

Collaborators and Partners

The list of participants is attached as Annex 4.

Next Steps

UNICEF and WHO representatives stated that they would like to continue to work with partners to develop and finalize the guide. MSH/RPM may receive further requests to comment as the draft develops. RPM Plus will work with United States Agency for International Development (USAID) to explore opportunities for future collaboration to support the scale up of pediatric HIV care and treatment.

Annex 1. Meeting Terms of Reference

WHO/UNICEF-sponsored consultation to support development of a programming guide for HIV related treatment, care and support for HIV-infected and exposed children in resource-constrained settings

I. Background / Rationale:

Many countries are now in the early stages of scaling up the provision of pediatric HIV care, support, and treatment, and while many have already made progress with scaling up adult HIV care and support programs, few have made significant progress to ensure HIV care and ART is provided to children. Few countries have more than a few tertiary-level sites with the capacity to provide HIV-related care and support for the child or the entire family. Many stakeholders at national level have expressed the need for better guidance on how best to scale up the provision of care and support for HIV-infected children, particularly in the context of resource-constrained settings, and for information on how to integrate this guidance with existing child survival and PMTCT program efforts. UNICEF and WHO have agreed to develop appropriate programming guidance to assist countries in the scale up of pediatric HIV care and support.

This meeting is designed to review key elements of the draft proposed programming guidance and examine it in relation to available evidence and programmatic experience.

II. Goals: The aim of this meeting is to review the draft UNICEF/WHO programming guidance and identify essential revisions and modifications and outline next steps.

III. Specific Objectives:

- 4. Review and agree on the essential package of services for treatment, care and support of HIV-exposed and HIV-infected infants and children. This will include, but not be limited to:
 - a. Routine HIV testing
 - Follow up of children exposed to HIV and ensuring early testing (PCR for infants and for older children, rapid antibody) through child and family care programs
 - c. Delivery of long-term care of symptomatic children in health care settings, including provision of cotrimoxazole prophylaxis and antiretroviral therapy
 - d. Training to improve skill levels of health care providers and laboratory staff

- e. Delivery of home-based care to both exposed and infected children
- f. Provision of psychosocial support and counseling for HIV-infected children
- g. Quality improvement activities
- 5. Review the draft programming guidance to confirm its applicability, suitability, and relevance to the key intended audience.
- 6. To examine and endorse the identified key program elements of the draft programming guidance.

IV. Methodology

- a. The draft programming guidance will be developed in a consultative manner involving relevant UNICEF and WHO technical and operational departments with the assistance of a consultant.
- **b.** The draft guidance will be shared with participants in advance of the consultation.
- c. Participants at the consultation will have the following profiles:
 - a. Experts in pediatric HIV care and support
 - b. Individuals from a select number of countries where demonstrable progress in delivery of HIV care and support has been made
 - c. National program managers or officers who would be the primary target audience of the programming guidance from countries where significant burden of pediatric HIV disease (either high prevalence or high total number of HIV infected women and children)
 - **d.** National or international partners with experience of effective approaches to providing pediatric HIV care and support.
 - e. Individuals with program planning and implementation experience in related areas of child health, EPI and IMCI and PMTCT
 - f. Individuals with health systems expertise; in particularly related to organization of health service delivery and human resource planning
- d. Participants, at the meeting will review the priority intervention areas identified in the draft guidance document, identify through presentations and plenary discussion effective mechanisms for service delivery and key program requirements, and through group work provide recommendations to be incorporated in the finalized tools.
- V. Expected output: The meeting will develop a summary of recommendations that will need to be reflected in revisions to content, scope, and format of the programming guidance being developed.

VI. Meeting participants:

- International Organizations
 - UNICEF
 - o WHO
- Implementing partners
 - o ANECCA
 - Basics
 - Baylor Pediatric AIDS Initiative
 - Catholic Medical Mission Board
 - Catholic Relief Services
 - Center for International Health
 - Clinton Foundation
 - Columbia University
 - o Community of Sant Egidio DREAM Program
 - o EGPAF
 - o FHI
 - o Forum on Collaborative HIV Research George Washington University
 - Global AIDS Alliance
 - Human Sciences Research Council
 - o International HIV/AIDS Alliance
 - o Medical Missions for Children
 - o MSF
 - o MSH
 - o Partners in Health
 - o Population Council
 - Save the Children UK
 - Save the Children US
 - The FORUM George Washington University
 - UNC Chapel Hill

Funding Institutions

- o CDC
- o NIH
- o USAID

• Pharmaceutical Companies

- o Johnson & Johnson
- o Pfizer, Inc.
- Roche Molecular Systems
- Representatives from countries where significant progress has been made.
 - o Brazil
 - South Africa
 - Thailand

- Countries with high burden overall (either prevalence or numbers or both)
 - o Botswana
 - o Cameroon
 - o China
 - o Ethiopia
 - South Africa
 - o Uganda
 - Ukraine
 - o Zimbabwe

VII. Date and Venue

Venue: UNICEF Headquarters Date: January 11 - 13, 2006

VIII. Language: English

IX. Administrative Arrangements

- UNICEF will make arrangements for conference facilities and accommodations
- UNICEF/WHO will send out formal invitations to all participants
- UNICEF and WHO will ensure participation of appropriate UNICEF and WHO field staff.
- UNICEF/WHO will engage the services of a consultant for preparation and revision of the draft programming guidance and supervise his/her work until completion.

Annex 2. Agenda

UNICEF-WHO CONSULTATION DEVELOPMENT OF A PROGRAMMING GUIDE FOR SCALING UP TREATMENT, CARE AND SUPPORT FOR HIV-INFECTED AND EXPOSED CHILDREN IN RESOURCE-CONSTRAINED SETTINGS

January 11 - 13, 2006 UNICEF House, 3 United Nations Plaza New York City

Wednesday, January 11th, 2006 (Day 1)

8:00-9:00 **Registration**

Session 1: Introductions and Review of the Current Situation

Chair: L. Mofenson, National Institutes of Health

Rapporteur: R. Ferris, USAID

9:00 – 9:30	Welcome and Opening Remarks P. McDermott
9:30 – 9:45	Setting the scene: Why we are concerned C. Luo
9:45 – 10:00	Positioning HIV in Children into the Child Survival Agenda L. Mason
10:00 – 10:15	Setting Targets: Why, How, and Which? C. Gilks
10:15 – 10:30	Moderated Discussion Session Chair
10:30 – 10:45	Break

Session 2: Optimizing Entry into Care: Finding Children in Need

Chair: M. Kline, Baylor College of Medicine

Rapporteur: Susan Fiscus, UNC - Chapel Hill School of Medicine

10:45 – 11:05	G. Tene
11:05 – 11:25	Institutionalizing Early Diagnosis in a Public Health Model G. Sherman

11:25 – 11:45	Early Diagnosis: Recommendations from ANECCA Consultation B. Eley
11:45 – 12:05	Early Diagnosis: Experiences from Rwanda and Botswana T. Creek
12:05 – 12:25	Technical Recommendations for follow-up of HIV-exposed and infected infants S. Crowley
12:25 – 12:45	Follow-up of Infants: Linkages between PMTCT and Care E. Abrams
12:45 – 1:00	Questions
1:00 - 2:00	Lunch
2:00 – 2:45	Moderated Discussion Session Chair

Session 3: Management of HIV-exposed and HIV-infected Children

Chair: R. Mathai, Catholic Medical Mission Board

Rapporteur: B. Pazvakavambwa, WHO

2:45 – 3:05	The IMCI Approach – A focus on follow up of HIV-exposed and HIV-infected infants L. Muhe
3:05 – 3:25	The IMAI Approach – A chronic HIV care model S. Gove
3:25 – 3:45	The Ugandan Experience with IMCI and IMAI K. Mugisha
3:45 – 4:00	Break
4:00 – 4:30	Moderated Discussion Session Chair
4:30 – 4:50	Infant and Young Children Feeding Strategies for HIV-exposed Children L. Mason
4:50 – 5:10	The Ghanaian Experience with Infant Feeding for HIV-exposed Children A. Akuomoa- Boateng

5:10-5:45 **Moderated Discussion**

Session Chair

Thursday, January 12th, 2006 (Day 2)

Session 4: Strategies for Scaling Up

Chair: M. Anderson, Center for International Health Rapporteur: J. Riehl, Medical Missions for Children

8:30 – 8:45	Welcome
8:45 – 9:05	The Rwandan Experience: Scaling up Pediatric Treatment D. Gashumba
9:05 – 9:25	The Ukrainian Experience: Care for Special Populations S. Komar
9:25 – 9:45	The Thai Experience: HIV M&E and QI for Children A. Teeraraktul
9:45 – 10:05	Break
10:05 – 10:25	The Ugandan Experience: Capacity Building I. Kalyesubula
10:25 – 10:45	The African Experience: Supply Management H. Walkowiak
10:45 – 11:05	Overview of Strategies for Scaling Up R. Gass
11:05 – 12:00	Moderated Discussion of Scale Up Strategies Session Chair
12:00 – 1:00	Lunch

Session 5: Community-based Interventions

Chair: J. Mukherjee, Partners in Health

Rapporteur: C. Abate, Catholic Relief Services

1:00 – 1:20	Community Based Strategies for Treatment, Care and Support for HIV-Infected and Exposed Children R. Lovich
1:20 – 1:40	Home-based Care for Children: The S. African Experience L. Scheepers

1:40 – 2:10	Moderated Discussion of Community-based Interventions Session Chair	
Session 6A: Group Work		
2:45 – 3:00	Introduction to Programming Guide and Group Work R. Gass	
2:10 – 2:45	Review of Draft Programming Guide J. Pinto	
3:00 – 3:15	Break	
3:15 – 5:30	Group 1: National Leadership, Program Management, Coordination, Planning, Target Setting Chair: Y.D. Mukadi, Institute for HIV/AIDS, FHI Rapporteur: N. Ngongo, UNICEF	
3:15 – 5:30	Group 2: Operational Structure for Program Delivery Chair: D. Silimpieri, BASICS Rapporteur: G. Kumar Nair, Save the Children UK	
3:15 – 5:30	Group 3: Pediatric-related Supplies (Forecasting and Management) Chair: B. Cheng, Forum on Collaborative Research, GW University Rapporteur: A. Reinisch, WHO	
3:15 – 5:30	Group 4: Identification, Care, Support and Treatment Interventions for Exposed Infants and Infants of Unknown Status Chair: M. P. Kieffer, CDC - Kenya Rapporteur: D. Buyse, UNICEF	
3:15 – 5:30	Group 5: Care package of interventions for Infected Children Chair: C. Wilfert, Elizabeth Glaser Pediatric AIDS Foundation Rapporteur: S. Kumar, UNICEF	
3:15 – 5:30	Group 6: Strengthening Community-based Delivery of Care, Support and Treatment for Exposed and Infected Children Chair: A. Bartlett, USAID Rapporteur: E. Kebede, WHO	
5:30 – 7:30	Reception UNICEF House	

Friday, January 13th, 2006 (Day 3)

Session 6B: Group Work

9:00 – 12:00 **Group Work Continued**

12:00 - 1:00 **Lunch**

Session 7: Plenary

1:00 – 3:00 **Report Back from Groups**

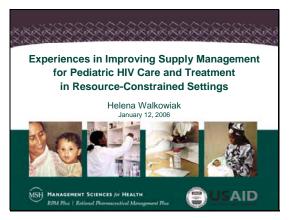
Chair: P. Villeneuve

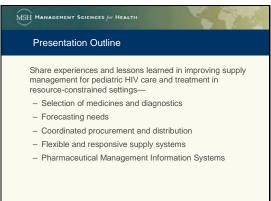
Rapporteurs: J. Pinto and A. Reinisch

3:00 – 3:30 **Discussion of Next Steps and Closing Session** P. McDermott

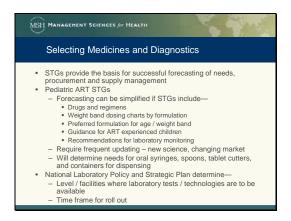
C. Gilks

Annex 3. Presentation on Experiences in Improving Supply Management for Pediatric HIV Care and Treatment in ResourceConstrained Settings: Helena Walkowiak, RPM Plus

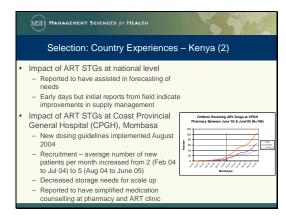












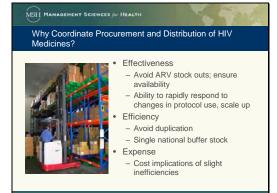


- Scientific field is still developing
- Dynamic market new products, product shortages, long lead times, ongoing WHO prequalification and FDAapproval
 - Short shelf life, limited product stability after reconstitution
- Rate of scale up is limited by capacity to diagnose HIV infection and deliver ART services
- Knowledge of the regimen does not automatically translate into specific products or dispensing quantities Information on age, weight and / or surface area is required to calculate doses
- Different dosing recommendations exist
- Adjustments are necessary for growth and weight gain in children who continue ART



Improving Forecasting of Needs: Country Experiences and Lessons Learned

- Coordination and teamwork at national and local level in place in some countries assist in-
 - Sharing new science, market intelligence, epidemiological data sets / consumption data sets and successful methodological approaches
- Developing and improving accuracy of assumptions
- · Tools and methodologies-
 - Demand Forecasting Tool Clinton HIV/AIDS Initiative (CHAI)
 - Quantification spreadsheet used in Western Cape, South Africa
 - Quantimed RPM Plus
 - Pharmaceutical Quantification and Cost Estimation Tool
 - Used for ARV procurement planning and budgeting for PEPFAR activities in Haiti, Namibia, Rwanda, Kenya and Zambia





- Monitor / report distribution
- Therapeutics Committee
- Promote common strategies to promote adherence to STGs
- Inform on issues that might affect consumption patterns
 Integrated Supply: CAMERWA
- - 2005 donation from CHAI organized in staggered deliveries

Coordination: Country Experiences - Kenya

- Coordination done by NASCOP
 - Subcommittees have an advisory role
 - Recommendations of the subcommittee are ratified and forwarded by NASCOP to MoH for implementation
- Pediatric ART Steering Committee
 Recently established MOH, donors and private sector
 - Mandate to deal with all pediatric ART issues
- Medicines Subcommittee
 - MOH, donors, facility staff, KEMSA
 - Responsibilities
 Determine standard first-line and second-line regimens for ART

 - Drug quantificationDrug distribution planning
 - · Drug quality assurance
- Support efficient data collection, analysis and reporting by sites
 Integrated Supply: KEMSA, MEDS

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Lesson Learned: Key Elements to Support the Coordination System

- Transparent and inclusive process
- Identification of key players
 - Definition of roles and responsibilities
 - Establishment of forums to discuss, share information, make decisions
- Definition of key processes to support the system
- · Flexibility to allow donors to observe different procurement rules
 - Limits harmonization of products and standardization of
 - Coordination of a multi-route procurement process crucial
- · Monitoring, reporting and evaluation
- · Technical support and capacity building



Flexible and Responsive Supply Systems: Possible New Approaches

- At national level, a fully funded, supported and active pharmaceutical management unit to manage ARVs from all
- Regularly updated, pre-purchasing information and forecasting provided to the marketplace, and active liaison with the manufacturers
 - Information on WHO-prequalified and FDA-approved products
 - White List for ARV Procurement CHAI
 - WHO prequalification http://mednet3.who.int/prequal/
 - FDA website http://www.fda.gov/oia/pepfar.htm
- Active supply pipeline information systems and management
- Consideration to harnessing private sector resources
- Lean stock holding, distribution systems requiring higher frequency deliveries, and a dynamic and very accurate pharmaceutical MIS



Flexible and Responsive Supply Systems: Country Experiences - Vietnam

- New ARV management unit at Vietnam Administration for AIDS Control under discussion
- PEPFAR currently procures all pediatric ARVs
 - 5 procurements in 2005
 - Each procurement was amended to meet changing circumstances on
- Treatment sites report monthly
- ART Inventory Tracking Tool RPM Plus
 - Facilitates the management of ARVs and OI medicines at an aggregate level; tracks expected influx, estimated monthly demand, and number of patients by regimen and facility
- Monthly meeting of all active players
 To review ARV stock levels / uptakes
 - Reschedule allocations, future predictions and funding requirements
 - Extended to OI drugs
- · Use parastatal / private sector storage and distribution



Flexible and Responsive Supply Systems: Country Experiences - Kenya

- ARV procurement and distribution coordinated by NASCOP
- Procurement and distribution
 - Both public and private (not-for-profit) systems are used to procure and distribute ARVs to meet targets for scale up
 - Private sector (MEDS) requests flexible delivery schedules depending on actual needs by sites; additional purchase orders have been placed to deal with surges in demand
 - Public Sector (KEMSA) restricted by procurement regulations to delivery in one consignment
- · Treatment sites report monthly on consumption and stock status
- ART Inventory Tracking Tool used by MEDS
- Regular meeting of all active players
 - Exchange market information
 - Review stock status, forecasted and funding requirements

MSH MANAGEMENT SCIENCES for HEALTH

Pharmaceutical Management Information Systems

- Inaccurate or lack of ART data is universally identified as a major constraint to successful quantification for ART programs
- For pediatric ART
- Need data on:
 - · Consumption for quantifying needs for existing patients including
 - Current rate and profile of scale up by regimen and formulation for forecasting needs for scale up

 - Changes by regimen and product
 Information on factors that may impact scale up
 - · Patient-focused data for pharmaceutical care e.g. monitoring
- Difficult to extract data needed from manual tools
- · Data for OI use in pediatrics is rarely available
- Sites need simple tools (including simple software) and assistance to collect, analyze and report data

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Pharmaceutical Management Information Systems: Country Experiences

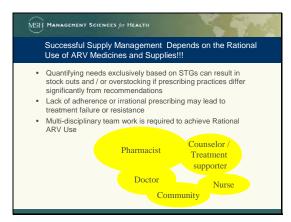
- Data Collection Tools
 - ARV Dispensing Tool RPM Plus
 - Links patient information and individual ART history to stock movement in a facility
 - · Maintains records for each patient receiving ART tracks patient profile and medication history
 - Generates key management reports, such as Monthly Patient Uptake Trends and Currently Active Patients per Regimen
 - Experiences
 - Cote d'Ivoire: 11 sites
 - Haiti: 4 sites
 - Kenya: 20+ sites
 - Namibia: 4 sites
- Others

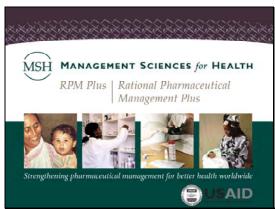
Rwanda: 5 sites Tanzania: 1 site

Zambia: 17 sites

Summary

- Too early in many pediatric ART programs to see
- · However indications are that promising approaches to improve supply management for pediatric ART are
 - Guide selection of ART regimen, formulations, dosing and laboratory monitoring
 - Improve accuracy of forecasting
 - Coordinate procurement and supply
 - Develop flexible and responsive supply systems
 - Improve reliability and timeliness of data collection and reporting





Annex 4. Meeting Participants

Name	Organization	Title
Abrams, Elaine	Columbia University	Professor of Pediatrics & Epidemiology
Abate, Carmela	Catholic Relief Services	Senior Regional Technical Advisor
		Health & HIV; Regional Coordinator
		East Africa
Agarwal, Arpana	Clinton Foundation	Programme Manager
Akuamoa-Boateng, Abenaa	Ashanti Regional Health	Regional Nutrition Officer
	Directorate - MoH	
Akwara, Priscilla	UNICEF, HQ	Project Officer
Alnwick, David	UNICEF ESARO	Regional Adviser, HIV/AIDS
Anabwani, Gabriel	Botswana-Baylor Children's	Clinical Professor of Pediatrics and
	Clinical Centre of Excellence	Executive Director
Anderson, Mark	Center for International Health	President
Bartlett, Al	USAID, Office of Health,	Senior Advisor for Child Survival
	Infectious Diseases, and	
	Nutrition	
Bowsky, Sara	USAID, Bureau for Africa	HIV/AIDS Care Advisor
Buyse, Dirk Stefaan	UNICEF (Western & Central	WCARO PMTCT/HIV
	Africa Regional Office)	
Calles, Nancy	Baylor International Pediatric	Vice-President, International Program
-	AIDS Initiative	Development
Cheng, Ben	George Washington University	Deputy Director, Forum on
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Creek, Tracy	CDC	Medical Officer; PMTCT Team
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Damonti, John	Bristol-Myers Squibb Company	
DeGennaro, Vince	Global AIDS Alliance	Medical Student Advocacy Fellow
Dladla, Nobayeni	Embassy of South Africa	Health Attache
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	Cross Children's Hospital	
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		Care
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Futterman, MD, Donna	Mothers Programmes	Board Member
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Cashumba, Diane	Oniversity Hospital Of Nigali	i Guiatrician
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Name	Organization	Title
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Gove, Sandy	WHO	IMAI Team, HIV/AIDS
Guidotti, Giovanni	Community of Sant'Egidio -	Programme Manager: Mozambique,
,	DREAM program	Kenya and Tanzania
Hattingh, Lucy	Virology - HIV; Roche Molecular Systems, Inc	Director of International Marketing
Kaluwa, Owen	WHO, Botswana	HIV/AIDS Country Officer
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Kamau, Macharia	UNICEF, South Africa	Country Office Representative
Kebede, Eyerasalem	WHO Country Office in Ethiopia	NPO/IMCI/WHO
Kebede, Senait	WHO - AFRO	Focal person on Pediatric Care
Kenya-Mugisha, Nathan	Masaka Regional Hospital	Medical Superintendent
Khalil, Samir A.	Merck & Co., Inc.	Executive Director, HIV Policy & External Affairs
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Kline, Mark	Baylor International Pediatric AIDS Initiative	Professor and President
Knippenberg, Rudolf	UNICEF HQ	Senior Adviser Health
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Mizwa, Michael	Baylor International Pediatric AIDS Initiative	Vice-President, International Affairs

Name	Organization	Title
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Ratzan, Scott	Johnson & Johnson	Vice President, Pharmaceuticals and
		Global Health
Reinisch, Annette	WHO/UNICEF	Pediatric HIV care Consultant
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Rivadeneira, Molly (Emilia)	CDC - Global AIDS Program	Medical Officer; HIV Care and
		Treatment Team
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